

# *Siemens Westinghouse SECA Industrial Team Program Review*

**Mike Jaszcar**

**Stationary Fuel Cells**

**Siemens Westinghouse Power Corp.**

**Pittsburgh, Pa.**

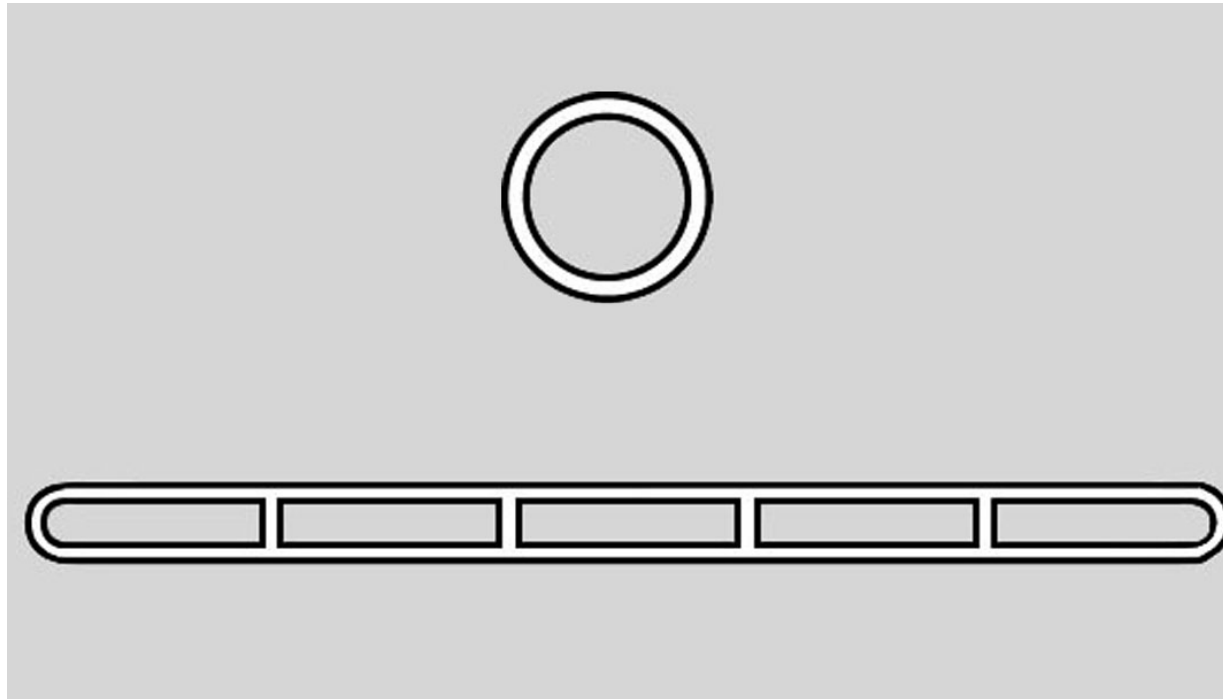
**November 16, 2001**

- Develop an SOFC system prototype with a net power of 3-10 kW
- Ultimate cost goal - \$400/kW

- Award notification received
- Statement of work negotiations underway
- DOE contract not in place

- Technology Team
  - SWPC
  - Fuel Cell Technologies
  - Blasch Ceramics
  - Georgia Tech
  
- Customer/Market Teams
  - Stationary
    - Fuel Cell Technologies
    - Lennox Industries
    - Trane
    - Dominion Resources
  - Transportation
    - Fuel Cell Technologies
    - Ford Motor Company
    - Eaton Corporation
  - Military
    - Fuel Cell Technologies
    - Newport News Shipbuilding
    - Eaton

- Improve cell performance
- On-cell reformation
- Cost-effective fuel processing
- Sulfur tolerant anode
- Low-cost insulation and containment vessel
- High efficiency power conditioning

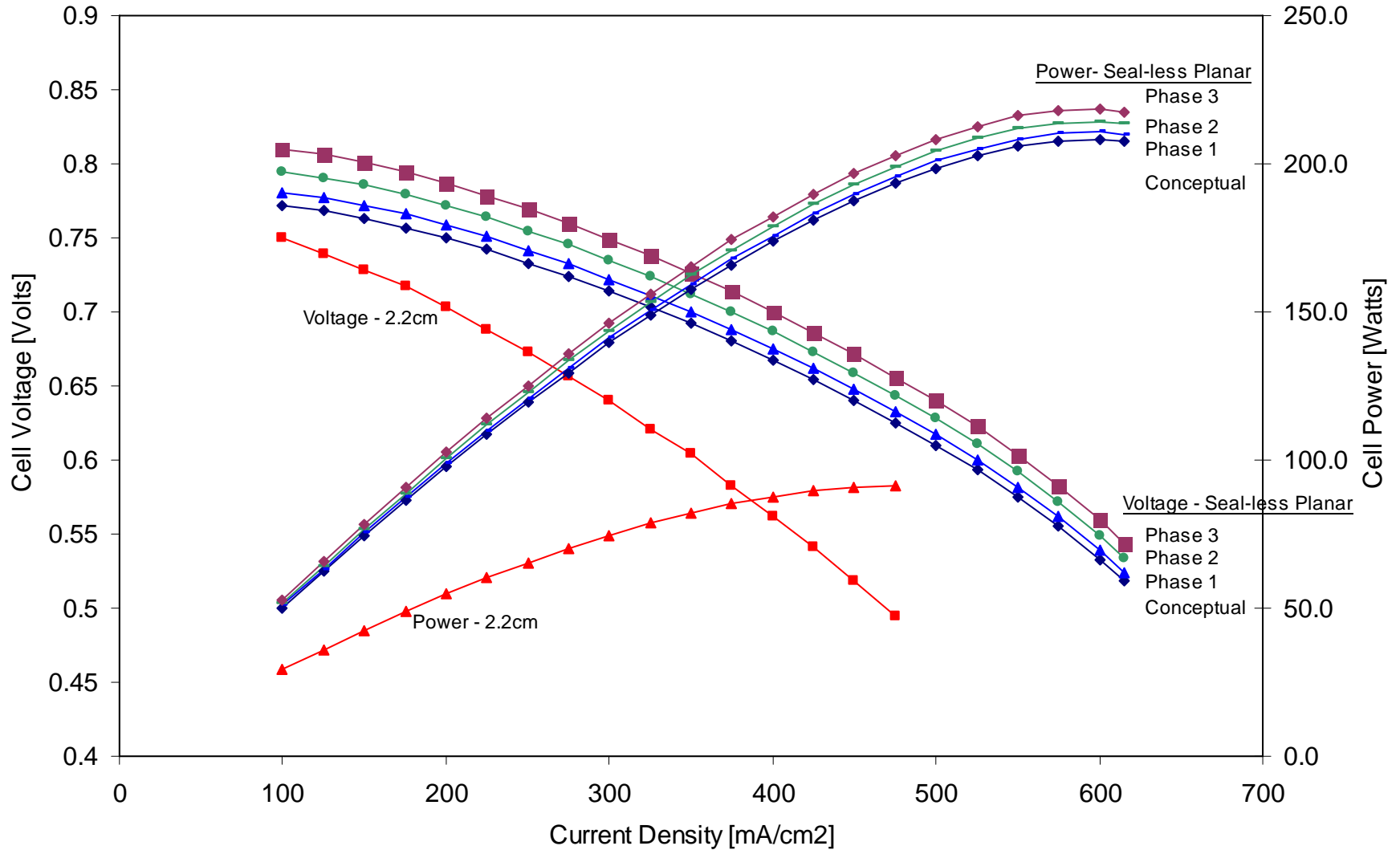


**2.2 cm Cylindrical  
(Present )**

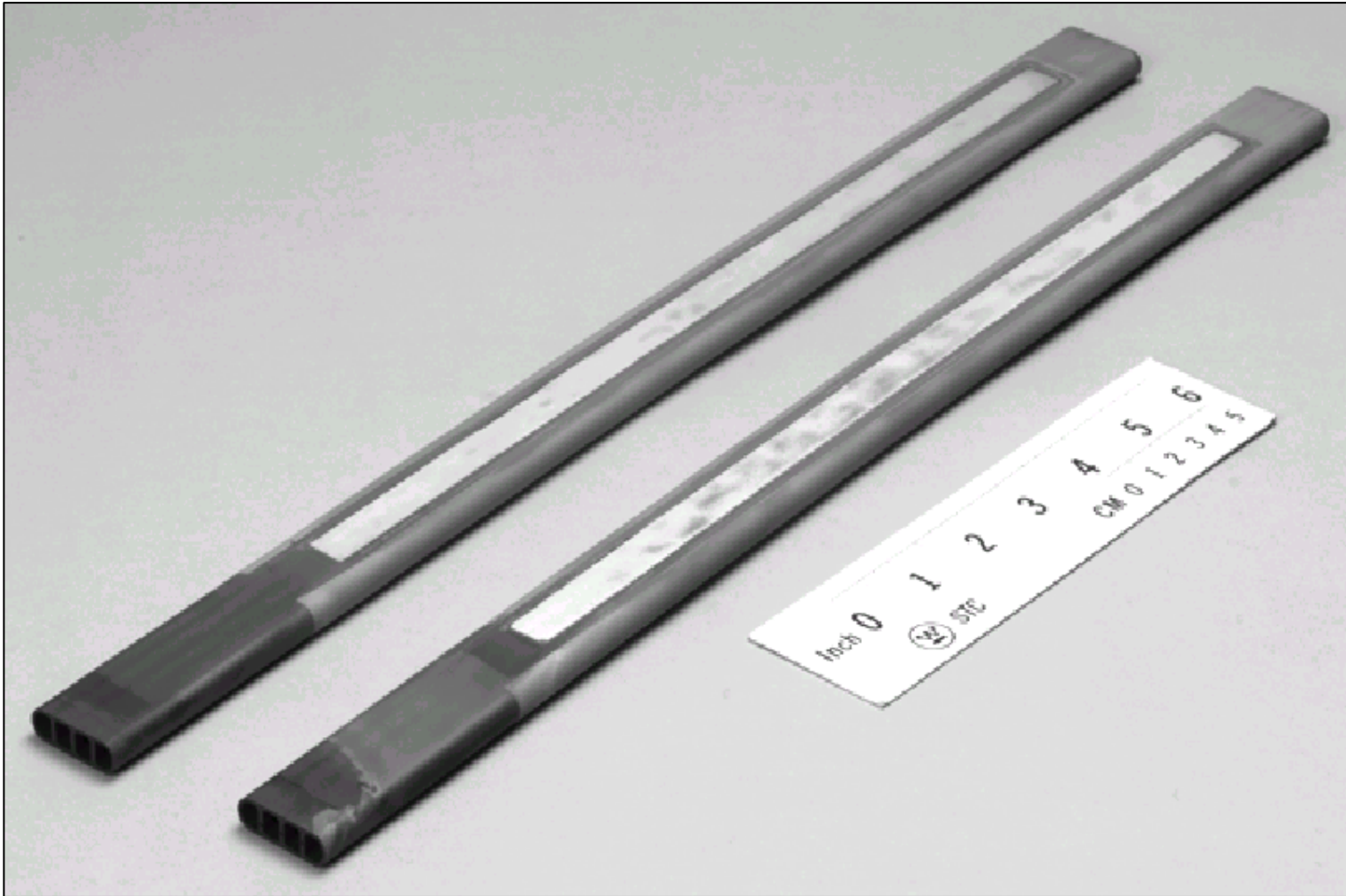
**Seal-less Planar**

- **Based on SWPC cylindrical cell design**
- **Maintains Seal-less planar design**
- **Reduction in resistance and cell cost**
- **Increase in cell power**
- **More compact stack**

# Cell Performance Comparison

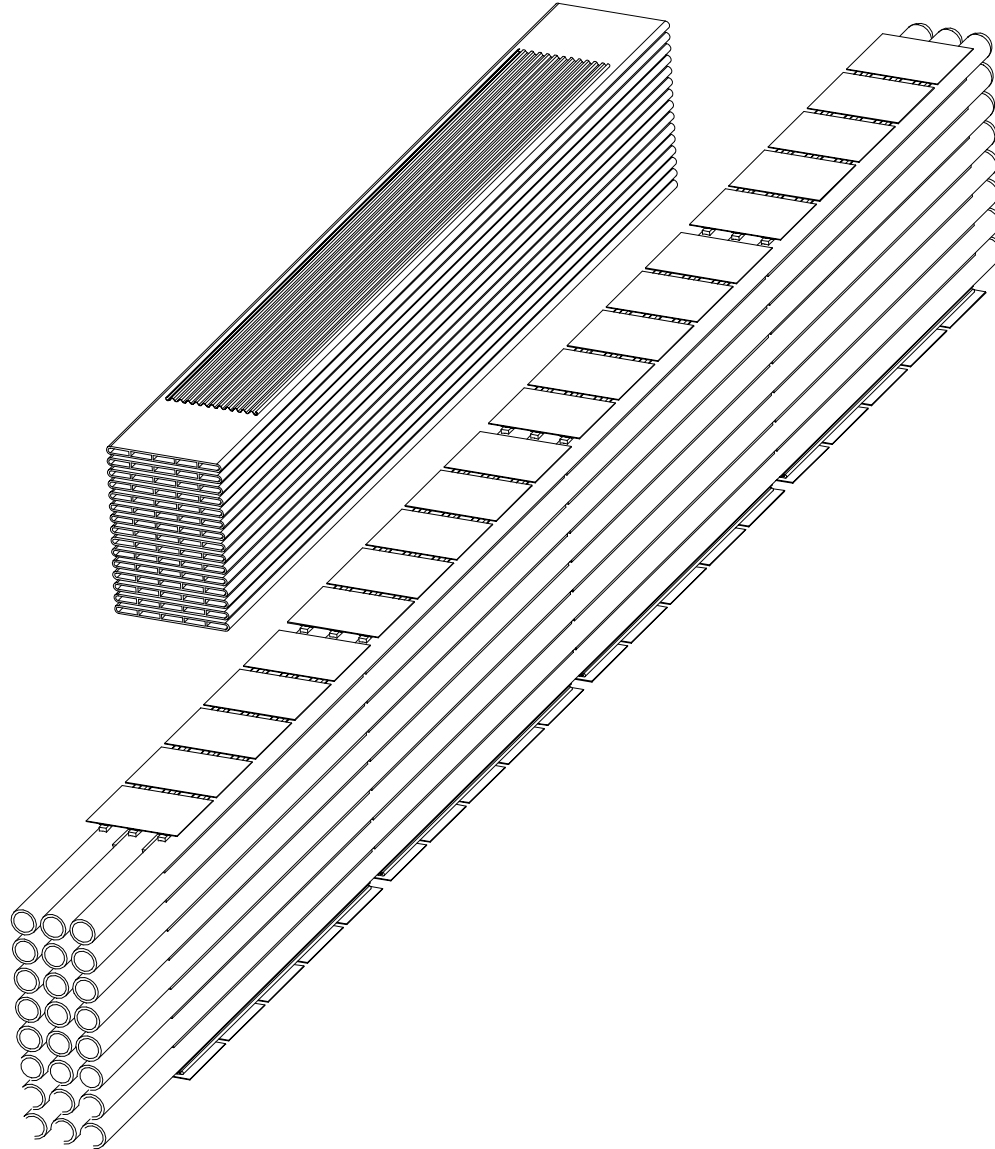


## SWPC Seal-less Planar Cell





# Bundle Comparison



## Fuel Cell Technology Siemens Westinghouse



- Conclude DOE contract negotiations - EOY '01
- Industrial team partners under contract - Jan. '02